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(54) HOSE FOR CARBON DIOXIDE REFRIGERANT TRANSPORT

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a hose for transporting carbon dioxide refrigerant having multilayer structure in which a practical refrigerant permeability resistance is ensured while keeping flexibility, and which is avoided having a critical point in which refrigerant permeable amount is intensively changed to a enlarging diameter of a hose by providing a low permeable layer using a metal deposition layer between any of layers of the multilayer structure.
SOLUTION: A low permeable layer 6 made of metal deposition resin film is provided between an inner tube internal layer 1 and an inner tube external layer 3. The low permeable layer 6 is provided on an outer peripheral surface of an inter tube 7 constituted of a single layer. An inner tube is constituted of single layer or multilayer, each layer is made of rubber or resin. In the rubber layer, butyl rubber, chlorinated butyl rubber, brominated butyl rubber, acrylonitrile-butadiene rubber, chlorinated polyethylene rubber, ethylene propylene diene rubber, chlorosulfonated polyethylene or the like is used. In the resin layer, it is preferable that a material which does not deteriorate flexibility of a hose such as polyamide resin or polyester resin is used, and the layer is lower than 150 μm in thickness.
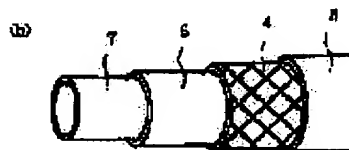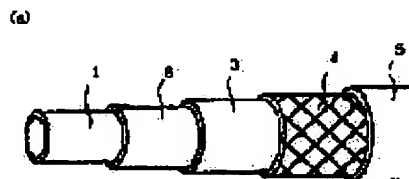
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